



GP/2661

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Brueckner et al.

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Serial No.: 09/900,251

DEC 10 2001

Group Art Unit: 2661

Filed: 7/6/2001

GROUP 3600

Examiner:

For: SPATIAL COORDINATION SYSTEM

DEC 06 2001

Technology Center 2600

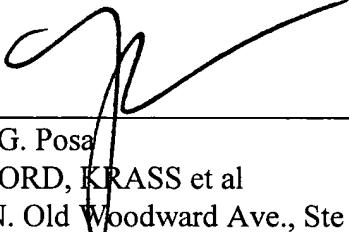
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**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR BEFORE MAILING
OF FIRST OFFICE ACTION (37 CFR 1.97(b))**

Assistant Commissioner for Patents
Washington, D.C. 20231

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last. 37 CFR 1.97(b).

Date: November 30, 2001


John G. Posa

Reg. No.: 37,424

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FAX 734/913-6007

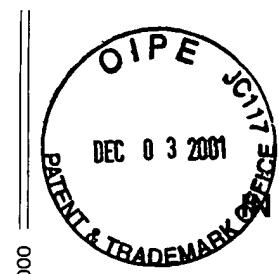
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CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Date November 30, 2001


Ann K. Andrusiak



GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON & CITKOWSKI, PC. 280 N. OLD WOODWARD AVENUE, STE. 400, BIRMINGHAM, MICHIGAN 48009-5394 (248) 647-6000

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Dear Sir:

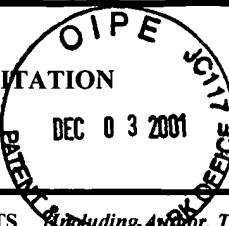
In compliance with the duty of disclosure under 37 C.F.R. §1.56, it is respectfully requested that this Information Disclosure Statement be entered and the references listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the references are enclosed for the convenience of the Examiner.

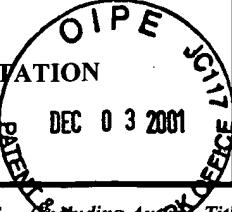
In accordance with 37 C.F.R. §1.97(b), this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possible material information as defined in 37 C.F.R. §1.56(a) exists.

Respectfully submitted,

By _____
John G. Fosa
Reg. No 37,424

Date: November 30, 2001

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		 DEC 03 2001	Docket Number (Optional) ERIO-11302/03	Application Number 09/900,251
		Applicant(s) Brueckner et al.	Filing Date 7/6/2001	Group Art Unit 2661
*EXAMINER INITIAL	OTHER DOCUMENTS <small>(including Author, Title, Date, Pertinent Pages, Etc.)</small>			
	<p>P. Kuntz, P. Layzell, "An Ant Clustering Algorithm Applied to Partitioning in VLSI Technology", MIT Press, 1998.</p>			
	<p>P. N. Kugler, R. E. Shaw, K. J. Vincente, J. Kingsella-Shaw, "Inquiry into intentional systems I: Issues in ecological physics", Psychological Research, Springer-Verlag, Heidelberg, Germany, 1990.</p>			
	<p>E. Bonoabeau, G. Theraulaz, "Swarm Smarts", Scientific American, March 2000, pp. 73-79.</p>			
	<p>E. Bonoabeau, M. Dorigo, G. Theraulaz, "Inspiration for optimization from social insect behaviour", Nature, Vol. 406, July 6, 2000, pp. 39-42.</p>			
	<p>M. Dorigo, G. Di Caro, L. M. Gambardella, "Ant Algorithms for Discrete Optimization", Technical Report - IRIDIA, 10-98 Universite Libre de Bruxelles, Belgium.</p>			
	<p>A. Colorni, M. Dorigo, V. Maniezzo, M. Trubian, "Ant system for Job-shop scheduling", Belgian Journal of Operations Research, Statistics and Computer Sciences, Vol. 34(1), pp. 39-53, 1994.</p>			
	<p>M. Heusse, S. Guerin, D. Snyers, P. Kuntz, "A New Distributed and Adaptive Approach to Routing and Load Balancing in Dynamic Communication Networks", Technical Report RR-98001-IASC, Department Intelligence Artificielle et Sciences Cognitives, ENST Poretagne, 1998. Accepted for publication in the Journal of Complex Systems.</p>			
	<p>G. Di Caro, M. Dorigo, "AntNet: Distributed Stigmergetic Control for Communications Networks", Journal of Artificial Intelligence Research 9, pp. 317-365, December 1998.</p>			
	<p>T. Stutzle, M. Dorigo, "ACO Algorithms for the Traveling Salesman Problem", Evolutionary Algorithms in Engineering and Computer Science: Recent Advances in Genetic Algorithms, Evolution Strategies, Evolutionary Programming, Genetic Programming and Industrial Applications, 1999.</p>			
	<p>D. Helbing, F. Schweitzer, J. Keltsch, P. Molnar, "Active Walker Model for the Formation of Human and Animal Trail Systems". No date.</p>			
	<p>L. Steels, "Cooperation Between Distributed Agents Through Self-Organisation", presented at the Lagos Workshop on Autonomous Agents, November 1988; accepted for publication in Journal on Robotics and Autonomous Systems, North Holland, Amsterdam, 1989.</p>			
	<p>S. Aron, J. J. Denebourg, S. Goss, J. M. Pasteels, "Functional Self-Organisation Illustrated by Inter-Net Traffic in the Argentine Ant 'Iridomyrmex Humilis'", Biological Motion. No date.</p>			
EXAMINER		DATE CONSIDERED		
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>				

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	<p>S. Goss, S. Aron, J. J. Deneubourg, J. M. Pasteels, "Self-organized Shortcuts in the Argentine Ant", Naturwissenschaften 76, pp. 579-181, 1989.</p>		
	<p>E. Bonabeau, F. Henaux, S. Guerin, D. Snyers, P. Kuntz, G. Theraulaz, "Routing in telecommunications networks with "smart" ant-like agents". In Proceedings of IATA '98, Second Int. Workshop on Intelligent Agents for Telecommunication on Applications. Lecture Notes in AI vol. 1437, Springer Verlag, 1998.</p>		
	<p>M. Heusse, D. Snyers, S. Guerin P. Kuntz, "Adaptive Agent-Driven Routing and Load Balancing in Communication Networks", ENST de Bretagne Technical Report RR-98001-IASC.</p>		
	<p>L. M. Gambardella, M. Dorigo, "HAS-SOP: Hybried Ant System for the Sequential Ordering Problem", Technical Report 11-97, IDSIA, Lugano, CH, 1997.</p>		
	<p>T. Stutzle, M. Dorigo, "ACO Algorithms for the Quadratic Assignment Problem", Technical Report, IRIDIA 2-99, Universite Libre de Bruxelles, BG.</p>		
	<p>V. Maniezzo, A. Colorni, M. Dorigo, "The Ant System Applied to the Quadratic Assignment Problem". IEEE Trans. Knowledge and Data Engineering, 1999, in press.</p>		
	<p>A. Colorni, M. Dorigo, V. Maniezzo, "Distributed Optimization by Ant Colonies", appeared in Proceedings of ECAL91-European Conference on Artificial Life, Paris, France, pp. 134-142, Elsevier Publishing.</p>		
	<p>M. Dorigo, V. Maniezzo, A. Colorni, "The Ant System: Optimization by a colony of cooperating agents", IEEE Transactions on Systems, Man, and Cybernetics, B 6, 29-41 (1996).</p>		
	<p>"New Ideas in Optimization", Chapter 2, "The Ant Colony Optimization Meta-Heuristic", M. Dorigo, G. Di Caro, pp. 11-32; Chapter 3, "ACO Algorithms for the Quadratic Assignment Problem", T. Stutzle, M. Dorigo, pp. 33-50; Chapter 4, "An ACO Algorithm for the Shortest Common Supersequence Problem", R. Michel, M. Middendorf, pp. 51-61; Chapter 5, "MACS-VRPTW: A Multiple Ant Colony System for Vehicle Routing Problems with Time Windows, L. M. Gambardella, E. Taillard, G. Agazzi, pp. 62-76.</p>		
	<p>E. Bonabeau, M. Dorigo, G. Theraulaz, "Swarm Intelligence - From Natural to Artificial Systems", Chapter 2, "Ant Foraging Behavior, Combinatorial Optimization, and Routing in Communications Networks", (Oxford University Press, New York, 1999).</p>		
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